



IRW

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

~~TRADE~~ In re Application of:

Peng Zhou et al.

Serial No.: 10/643,638

Filed: August 18, 2003

## For: BOILING TEMPERATURE DESIGN IN PUMPED MICROCHANNEL COOLING LOOPS

) Group Art Unit: 3744

) Examiner: Filip Zec

**TRANSMITTAL LETTER**

) 162 N. Wolfe Road  
 ) Sunnyvale, CA 94086  
 ) (408) 530-9700

Customer No.: 28960

MS: Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Sir:

Enclosed please find a Supplemental Information Disclosure Statement, a Certification pursuant to 37 C.F.R. § 1.97(e) for the Supplemental Information Disclosure Statement, and Form PTO-1449, including copies of the references contained thereon, for filing in the U.S. Patent and Trademark Office.

You will also find enclosed the associated Transmittal, Electronic Information Disclosure Statement, and United States Patent and Trademark Office Acknowledgment Receipt for the electronically filed Supplemental Information Disclosure Statement (EFS ID #89690) filed on August 2, 2005.

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1275. An originally executed duplicate of this transmittal is enclosed for this purpose.

Respectfully submitted,  
HAVERSTOCK & OWENS LLP

By Thomas B.  
Thomas B. Haverstock  
Reg. No.: 32,571

Dated: 8-4-05

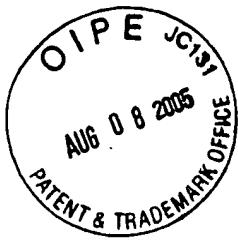
## Attorneys for Applicants

**CERTIFICATE OF MAILING (37 CFR§ 1.8(a))**

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450

**HAVERSTOCK & OWENS LLP.**

Date, 8-4-05 By: Tina D. Parker



PATENT  
Attorney Docket No.: COOL-01500

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: ) Group Art Unit: 3744  
Peng Zhou et al. )  
Serial No.: 10/643,638 ) Examiner: Filip Zec  
Filed: August 18, 2003 )  
For: **BOILING TEMPERATURE** ) **SUPPLEMENTAL INFORMATION**  
**DESIGN IN PUMPED** ) **DISCLOSURE STATEMENT**  
**MICROCHANNEL COOLING** )  
**LOOPS** )  
)

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MS: Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Sir:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

United States Patents or Published Patent Applications have been filed electronically (EFS ID# 89690). Applicants have become aware of the following printed publications which may be material to the examination of this application:

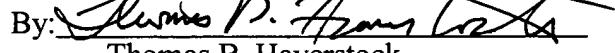
- Japanese Patent Abstract JP 10-99592; and
- Japanese Patent Abstract JP 2001-326311.

PATENT  
Attorney Docket No.: COOL-01500

This Supplemental Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that anyone or more of these citations constitutes prior art.

Respectfully submitted,  
HAVERSTOCK & OWENS LLP

Dated: 8-4-05

By:   
Thomas B. Haverstock  
Reg. No.: 32,571

Attorneys for Applicants

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- 2 -

HAVERSTOCK & OWENS LLP.

Date: 8-4-05 By: 



PATENT  
Attorney Docket No.: COOL-01500

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: ) Group Art Unit: 3744  
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**LOOPS** ) (408) 530-9700  
)  
)

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MS: Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Sir:

This certification is being made for the Supplemental Information Disclosure Statement accompanying this certification.

**Certification**

I hereby certify that the attached two (2) references contained in this supplemental information disclosure statement were cited within an International Search Report (ISR) mailed on May 23, 2005. **Accordingly, the reference contained in the information disclosure statement were cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of the statement.** 37 C.F.R. 1.97(e)(1).

PATENT  
Attorney Docket No.: COOL-01500

**Identification of Person Making Certification**

The person making this certification is the attorney who signs below on the basis of the information in the attorney's file.

Respectfully submitted,  
HAVERSTOCK & OWENS LLP

Dated: 8-4-05

By:   
Thomas B. Haverstock  
Reg. No.: 32,571

Attorneys for Applicants

**CERTIFICATE OF MAILING (37 CFR§ 1.8(a))**

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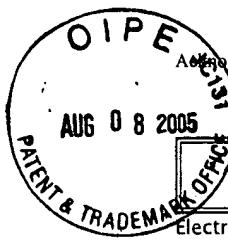
- 2 -

HAVERSTOCK & OWENS LLP.

Date: 8-4-05 By: 

FORM PTO-1449 (Modified) <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <small>(Use Several Sheets If Necessary)</small> (37 CFR § 1.98(b))		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: COOL-01500		Serial No.: 10/643,638		
				Applicants: Peng Zhou et al.				
				Filing Date: August 18, 2003		Group Art Unit: 3744		
		<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patente	Class	Subclass	Filing Date	
	AA							
	AB							
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
<b>FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS</b>								
		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
	AK	JP 10-99592	04/21/98	JP	D06F	39/08		X
	AL	JP 2001-326311	11/22/01	JP	H01L	23/427		X
	AM							
	AN							
	AO							
<b>OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)</b>								
	AP							
	AQ							
	AR							
	AS							
	AT							
	AU							
	AV							
	AW							
	AX							
	AY							
	AZ							
Examiner:				Date Considered:				
<b>EXAMINER:</b> Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								



UNITED STATES PATENT AND TRADEMARK OFFICE  
ACKNOWLEDGEMENT RECEIPTElectronic Version 1.1  
Stylesheet Version v1.1.1

Title of Invention	BOILING TEMPERATURE DESIGN IN PUMPED MICROCHANNEL COOLING LOOPS									
Submission Type:	Information Disclosure Statement									
Application Number:	10/643638	*10/643638*								
EFS ID:	89690									
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USPTOEFSNotice	For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number: 1(866) 217-9197 Website: <a href="http://www.uspto.gov/ebc/">http://www.uspto.gov/ebc/</a>									
First Named Applicant:	Peng Zhou									
Attorney Docket Number:										
Timestamp:	2005-08-02 19:05:00 EDT									
From:	us									
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8/2/2005

Acknowledgement Receipt

Page 2 of 2

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Digital Certificate Holder Name:	cn=Thomas B. Haverstock,ou=Registered Attorneys,ou=Patent and Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US	

TRANSMITTAL		
Electronic Version v1.1 Stylesheet Version v1.1.0		
Title of Invention	BOILING TEMPERATURE DESIGN IN PUMPED MICROCHANNEL COOLING LOOPS	
Application Number:	10/643638 * 10/643638*	
Date:	2003-08-18	
First Named Applicant:	Peng Zhou	
Confirmation Number:	4432	
Attorney Docket Number:		
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>		
Submitted by:	Elec. Sign.	Sign. Capacity
Thomas B. Haverstock Registered Number: 32571	/tbh/	Attorney

Documents being submitted	Files
us-ids	COOL01500-usidstd.xml
	us-ids.dtd
	us-ids.xls
Comments	

AUG 08 2005

## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v1.8  
Stylesheet Version v1.8.0

## BOILING TEMPERATURE DESIGN IN PUMPED MICROCHANNEL COOLING LOOPS

Application Number: 10/643638

\*10/643638\*

Confirmation Number: 4432

First Named Applicant: Peng Zhou

Attorney Docket Number:

Search string: (0596062 or 2273505 or 4211208 or 6397932 or 20020075645).pn.

**Certification:** This Information Disclosure Statement was submitted under the following conditions, which satisfies the requirement under 37 CFR 1.97(e). The filer certified:

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

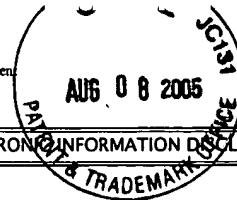
## US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

Init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	0596062	1897-12-28	W. P. Firey			
	2	2273505	1942-02-17	R. R. Florian			
	3	4211208	1980-07-08	Lindner			
	4	6397932	2002-06-04	Calaman et al.	B1		

## US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications



Init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
	1	20020075645	2002-06-20	Kitano et al.	A1		

## Signature

Examiner Name	Date